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(54) PRODUCTION OF METAL FOIL CLAD LAMINATED SHEET

(57)Abstract:

PURPOSE: To produce a metal foil clad laminated sheet good in the peeling strength of metal foil and reduced in the coefficient of thermal expansion by lowering the modulus of elasticity of an epoxy resin by the addition of a flexibility imparting agent to suppress the thermal expansion of the laminated sheet in the surface direction thereof.

CONSTITUTION: A fine particle dispersed epoxy resin having rubber elasticity is compounded with an epoxy resin, dicyandiamide and 2-ethyl-4-methylimidazole to prepare varnish with solid content of 60wt.%. This varnish is infiltrated into a glass fabric and the impregnated fabric is dried to obtain a prepreg. with resin content of 40wt.%. Four prepreps are superposed one upon another and copper foils are arranged to both surfaces of the superposed one and the whole is molded under heating and pressure to obtain a double-side copper clad laminated sheet. It is pref. to set the content of fine particles having rubber elasticity to 5 pts.wt. or more per 100 pts.wt. of the solid consisting of the epoxy resin and a curing agent. The fine particles having rubber elasticity is composed of acrylic rubber, NBR or silicone rubber.

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